

APPLICATION FOR UNITED STATES PATENT
DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; that

I verily believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural inventors are named below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: ✓ HONEYCOMB STRUCTURE

described and claimed in the specification:

Check one

- *a. ☐ attached hereto.
 b. ☐ filed on _____ as Application No. _____ and amended on _____ (if applicable).
 c. ☒ described and claimed in PCT International Application No. PCT/JP03/14185 filed on Nov. 7, 2003 and as amended under PCT Article 19 on _____ (if any).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.

Under Title 35, U.S. Code §119, the priority benefits of the following foreign application(s) and/or United States provisional application(s) filed by me or my legal representatives or assigns within one year prior to this application are hereby claimed:

✓ Japanese Patent Application No. 2002-323271 filed on November 7, 2002.

The following application(s) for patent or inventor's certificate on this invention were filed in countries foreign to the United States of America either (a) more than one year prior to this application, or (b) before the filing date of the above-named foreign priority application(s) and/or United States provisional application(s):

I hereby appoint the following as my attorneys of record with full power of substitution and revocation to prosecute this application and to transact all business in the Patent Office:

James A. Oliff, Reg. No. 27,075; William P. Berridge, Reg. No. 30,024;
 Kirk M. Hudson, Reg. No. 27,562; Thomas J. Pardini, Reg. No. 30,411;
 Edward P. Walker, Reg. No. 31,450; Robert A. Miller, Reg. No. 32,771;
 Mario A. Costantino, Reg. No. 33,565; Stephen J. Roe, Reg. No. 34,463;
 Joel S. Armstrong, Reg. No. 36,430; Christopher W. Brown, Reg. No. 38,025;
 Richard E. Rice, Reg. No. 31,560; and Paul Tsou, Reg. No. 37,956.

ALL CORRESPONDENCE IN CONNECTION WITH THIS APPLICATION SHOULD BE SENT TO OLIFF & BERRIDGE, PLC, P.O. BOX 19928, ALEXANDRIA, VIRGINIA 22320, TELEPHONE (703) 836-6400.

I hereby declare that I have reviewed and understand the contents of this Declaration, and that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

1	Typewritten Full Name of First or Sole Inventor	<u>Atsushi</u>		<u>KANEDA</u>
		Given Name	Middle Initial	Family Name
2	**Inventor's Signature:	<u>Atsushi Kaneda</u>		
3	**Date of Signature:	<u>April</u>	<u>25th,</u>	<u>2005</u>
		Month	Day	Year
	Residence:	<u>Kasugai-city,</u>	<u>Aichi-prefecture,</u>	<u>JPX Japan</u>
		City	State or Province	Country
	Citizenship:	<u>Japanese</u>		
	Post Office Address:			
	(Insert complete mailing address, including country)	<u>c/o NGK Insulators, Ltd.,</u> <u>2-56, Suda-cho, Mizuho-ku, Nagoya-city,</u> <u>Aichi-prefecture, 467-8530 Japan</u>		

*If Box (a.) is checked, this form may be executed only when attached to the specification (including claims).

**Note to Inventor: Please sign name exactly as it appears above and insert actual date of signing.

IF THERE IS MORE THAN ONE INVENTOR USE PAGE 2 AND PLACE AN "X" HERE ☒

REC PCT/PTO

02 MAY 2005

2-00

Typewritten Full Name
of Second Joint Inventor (if any)

		<u>Naoshi</u>		<u>MASUKAWA</u>
		Given Name	Middle Initial	Family Name
2	**Inventor's Signature:	<u>Naoshi</u>	<u>Masukawa</u>	
3	**Date of Signature:	<u>April</u>	<u>25th,</u>	<u>2005</u>
		Month	Day	Year
Residence:	<u>Nishikasugai-gun,</u>	<u>Aichi-prefecture,</u>	<u>Japan JPX</u>	
	City	State or Province	Country	

Citizenship: Japanese

Post Office Address:
(Insert complete
mailing address,
including country)

c/o NGK Insulators, Ltd.,
2-56, Suda-cho, Mizuho-ku, Nagoya-city,
Aichi-prefecture, 467-8530 Japan

3-00

Typewritten Full Name
of Third Joint Inventor (if any)

		<u>Shuichi</u>		<u>ICHIKAWA</u>
		Given Name	Middle Initial	Family Name
2	**Inventor's Signature:	<u>Shuichi</u>	<u>Ichikawa</u>	
3	**Date of Signature:	<u>April</u>	<u>25th,</u>	<u>2005</u>
		Month	Day	Year
Residence:	<u>Handa-city,</u>	<u>Aichi-prefecture,</u>	<u>Japan JPX</u>	
	City	State or Province	Country	

Citizenship: Japanese

Post Office Address:
(Insert complete
mailing address,
including country)

c/o NGK Insulators, Ltd.,
2-56, Suda-cho, Mizuho-ku, Nagoya-city,
Aichi-prefecture, 467-8530 Japan

1 Typewritten Full Name
of Fourth Joint Inventor (if any)

		Given Name	Middle Initial	Family Name
2	**Inventor's Signature:			
3	**Date of Signature:			
		Month	Day	Year
Residence:				
	City	State or Province	Country	

Citizenship:

Post Office Address:
(Insert complete
mailing address,
including country)

1 Typewritten Full Name
of Fifth Joint Inventor (if any)

		Given Name	Middle Initial	Family Name
2	**Inventor's Signature:			
3	**Date of Signature:			
		Month	Day	Year
Residence:				
	City	State or Province	Country	

Citizenship:

Post Office Address:
(Insert complete
mailing address,
including country)

Note to Inventors: Please sign name exactly as it appears and insert the actual date of signing.

This form may be executed only when attached to the first page of the Declaration and Power of Attorney form of the application to which it pertains.

10/533449

JC14 Rec'd PCT/PTO 02 MAY 2005
PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Atsushi KANEDA et al.

Application No.: New U.S. National Stage of PCT/JP03/14185

Filed: May 2, 2005

Docket No.: 123699

For: HONEYCOMB STRUCTURE

**TRANSMITTAL OF POWER OF ATTORNEY AND
STATEMENT UNDER 37 CFR § 3.73(b)**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Submitted herewith is a Power of Attorney from the Assignee.

In compliance with 37 CFR §3.73(b), the undersigned hereby states that NGK
INSULATORS, LTD. is the assignee of the entire right, title and interest in the patent application
identified above by virtue of an assignment from the inventors of the patent application identified
above. A copy of the assignment is attached hereto.

The undersigned is authorized to act on behalf of the assignee.

**ALL CORRESPONDENCE IN CONNECTION WITH THIS APPLICATION SHOULD
BE SENT TO OLIFF & BERRIDGE, PLC, CUSTOMER NO. (25944), TELEPHONE
(703) 836-6400.**

Respectfully submitted,



Thomas J. Pardini
Registration No. 30,411

TJP/nxy

Date: May 2, 2005

EXHIBIT A

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**GENERAL POWER OF ATTORNEY
TO PROSECUTE APPLICATIONS BEFORE
THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Assignee Name and Address: NGK Insulators, Ltd.
2-56, Suda-cho, Mizuho-ku, Nagoya-city
Aichi-prefecture, 467-8530 Japan

appoints the patent practitioners associated with Oliff & Berridge, PLC Customer
Number 25944 to represent it before the United States Patent and Trademark Office in
connection with any and all U.S. patent applications assigned to the above-named assignee.

The undersigned is authorized to act on behalf of the assignee.

**ALL CORRESPONDENCE IN CONNECTION WITH THIS APPLICATION SHOULD
BE SENT TO OLIFF & BERRIDGE, PLC, CUSTOMER NO. 25944, TELEPHONE
(703) 836-6400.**

October 28, 2004
Date

Takafumi Hochi
Signature

Typed Name: Takafumi Hochi

Title: General Manager, Legal Affairs &
Intellectual Property Department

Best Available Copy

ASSIGNMENT

10/533449
Rec'd PCT/PTO 02 MAY 2005

(1-8) Insert Name(s) of Inventor(s)

(1) Atsushi KANEDA (5) _____

(2) Naoshi MASUKAWA (6) _____

(3) Shuichi ICHIKAWA (7) _____

(4) _____ (8) _____

In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, each undersigned agrees to assign, and hereby does assign, transfer and set over to

(9) Insert Name of Assignee

(10) Insert Address of Assignee

(9) NGK Insulators, Ltd.

(10) 2-56, Suda-cho, Mizuho-ku, Nagoya-city,
Aichi-prefecture, 467-8530 Japan

(hereinafter designated as the Assignee) and Assignee's heirs, successors, assigns and legal representatives, the entire right, title and interest for the United States of America as defined in 35 U.S.C. §100, in the invention, and in all applications for patent including any and all provisional, non-provisional, divisional, continuation, substitute, and reissue application(s), and all Letters Patent, extensions, reissues and reexamination certificates that may be granted on the invention known as

(11) Insert Identification such as Title, Case Number, or Foreign Application Number

(11) HONEYCOMB STRUCTURE

(Attorney Docket No. _____)

for which the undersigned has (have) executed an application for patent in the United States of America on even date herewith or

(12) Insert Date of Signing of Application

(12) on _____

(13) Alternative Identification for filed applications

(13) U.S. application Serial Number _____
filed _____

1) Each undersigned agrees to execute all papers necessary in connection with any application and any continuing, divisional or reissue applications for the invention, and any patent(s) issuing thereon, and also to execute separate assignments in connection with such applications and patents as the Assignee may deem necessary.

2) Each undersigned agrees to execute all papers necessary in connection with any interference which may be declared concerning any application or continuation or division thereof, or any patent or reissue application based thereon, for the invention, and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

3) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

4) Each undersigned agrees to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or reexamination a grant of a valid United States patent to the Assignee.

5) Each undersigned authorizes and requests the Director of Patents to issue any and all Letters Patents of the United States resulting from said application(s) to the said Assignee, as Assignee of the entire interest, and covenants that he has full right to convey the entire interest herein assigned, and that he has not executed, and will not execute, any agreements in conflict herewith, and agrees that this assignment is binding on him and his heirs, successors, assigns and legal representatives.

6) Each undersigned hereby grants the firm of OLIFF & BERRIDGE, PLC the power to insert on this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date	<u>April 25, 2005</u>	Inventor Signature	<u>Atsushi Kaneda</u>	(SEAL)
Date	<u>April 25, 2005</u>	Inventor Signature	<u>Naoshi Masukawa</u>	(SEAL)
Date	<u>April 25, 2005</u>	Inventor Signature	<u>Shuichi Ichikawa</u>	(SEAL)
Date	_____	Inventor Signature	_____	(SEAL)
Date	_____	Inventor Signature	_____	(SEAL)
Date	_____	Inventor Signature	_____	(SEAL)
Date	_____	Inventor Signature	_____	(SEAL)
Date	_____	Inventor Signature	_____	(SEAL)

This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If neither, then it should be signed before at least two witnesses who also sign here:

Date	_____	Witness	_____
Date	_____	Witness	_____

Best Available Copy